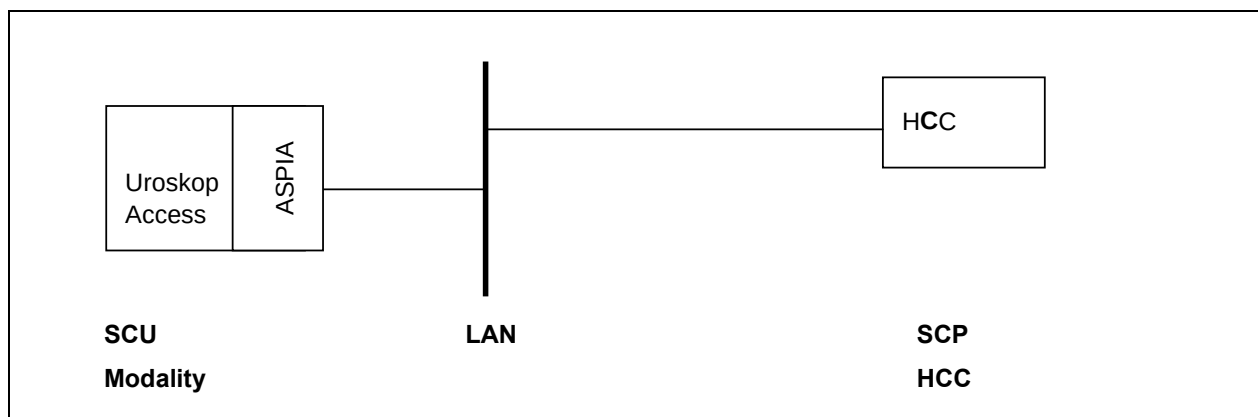


Product:	Uroskop Access
Title:	General Hardcopy Camera Information
Affected systems:	Image System ASPIA
Replaces:	SPL5-330.814.10.03.02

1 General Information

1.1 Block Diagram



1.2 System References

See Siemens Intranet Medical Solutions Customer Services
Technical Documentation for Uroskop Access and HCC

1.3 Hardware Components

Available Patch cable, straight-through, S/UTP RJ45 Part No.: 5m 30 74 515
Available Patch cable, straight-through, S/UTP RJ45 Part No.: 30m 30 74 523

or
See Siemens Intranet Medical Solutions Customer Services
Technical Documentation for Uroskop Access and HCC

1.4 Restrictions

The Border Density is sent always with BLACK value.
Sending film sizes that are not available at customer site can cause problems at the camera site.
Secondary Capture Images (SCImage) may not fulfil the required image quality, if the corresponding LUT files of the modalities are not loaded. (see chapter 4.1)

2 Scope of Applicability

2.1 Modality / System

Device-Type:	Modality (SCU)
Product name:	Uroskop Access
Manufacturer:	Siemens SP
HW-Revision:	Image system ASPIA
SW-Revision:	VA13A (syngo based VB10B,E) VA14A (syngo based VX43A))
DICOM Conformance Statement:	syngo VB10B, R 11.0, 17-Jul-2001; syngo VB10C, R 13.0, 12-Oct-2001;

2.2 Hardcopy Cameras

This table consists of all Hardcopy Cameras using Dicom Basic Print.

Manu facturer	HCC Name	Specific HCC Document	SW Validity				
			VA12B	VA12C	VA12D	VA13A	VA14A
Agfa	Drystar 3000	SPL5-330.814.11.02.02	X	X	X	X	X
Agfa	LR5200/MG3000	SPL5-330.814.12.02.02	X	X	X	X	X
Kodak	KELI 160 / PACS Link MIM 200	SPL5-330.814.13.01.02	X	X	X	X	X
Kodak	KELP 1120 / PACS Link MIM 200	SPL5-330.814.14.02.02	X	X	X	X	X
Kodak	MLP 190	SPL5-330.814.15.01.02	X	X	X	X	X
Kodak (*1)	DryView 8100 / PACS Link MIM 200	SPL5-330.814.16.01.02	X	X	X	X	X
Kodak (*1)	DryView 8200 / PACS Link MIM 200	SPL5-330.814.17.01.02	X	X	X	X	X
Kodak (*1)	DryView 8300 / PACS Link MIM 200	SPL5-330.814.18.01.02	X	X	X	X	X
Kodak (*1)	DryView 8700 / PACS Link MIM 200	SPL5-330.814.19.01.02	X	X	X	X	X
Fuji	FM-DPL / FN-PS 551	SPL5-330.814.20.02.02	X	X	X	X	X
Codonic s	NP1660MD	SPL5-330.814.21.01.02	X	X	X	X	X
Codonic s	Horizon	SPL5-330.814.22.01.02	n.a.	n.a.	n.a.	X	X
Konica	DryPRO 722 / PrintLink	SPL5-330.814.23.01.02	n.a.	n.a.	n.a.	X	X
Konica	DryPRO 752	SPL5-330.814.24.01.02	n.a.	n.a.	n.a.	X	X

Urooskop Access

General HCC Information

Camera Installation

Agfa	LP 400/300 with Image Gateway	SPL5-330.814.25.01.02	n.a.	n.a.	n.a.	X	X
Agfa (*2)	Drystar 5500	SPL5-330.814.26.01.02	n.a.	n.a.	n.a.	n.a.	n.a.
Fuji	FL-IMD / FN-PS 551	SPL5-330.814.27.01.02	n.a.	n.a.	n.a.	X	X
Fuji	FM-DP 3543 / FN-PS 551	SPL5-330.814.28.01.02	n.a.	n.a.	n.a.	X	X
Fuji (*2)	Drypix 7000	SPL5-330.814.29.01.02	n.a.	n.a.	n.a.	X	X
Kodak	KELP 2180 MIM 200	SPL5-330.814.30.01.02	n.a.	n.a.	n.a.	X	X
Kodak (*2)	DryView 8900	SPL5-330.814.31.01.02	n.a.	n.a.	n.a.	X	X

X = Hardcopy Camera release with mentioned Software Version for Urooskop Access

(*1) formerly Imation

(*2) The configuration files (specification file for the configuration; driver) for these types of cameras are not implemented in the basic Software Version of VA13A for Urooskop Access based on syngo Software Version VB10B,E. Please load down to your image system, if necessary the appropriate specfile from the intranet (CS.med.siemens.de; For service; SP/Litho / Uro / PTherapy / UROSKOP ACCESS / CB DOC / Service / Software)

n.a. = not released

Market Cameras in bold letters are new released or updated.

Note: The instigation of non released combination between Urooskop Access / Image System ASPIA and Hardcopy Cameras is not allowed and will not fulfil the defined requirements.

2.3 DICOM Associations

A DICOM association is a network connection between 2 DICOM applications. Once established, an association can be released by the SCU. An association may be aborted by the SCU or the SCP. The maximum number of associations is defined in the DCS for each HCC device. The maximum number of associations depends on the Configuration and may be extended by increasing the number of gateways connected to the printer device.

In a DICOM network environment, there are 2 possibilities of connecting a modality (SCU) to a HCC device (SCP):

Case1: the association will always be opened (eg. CT Navigator). Assuming this behavior belongs to all modalities (connected to the same HCC device), the number of modalities has to be equal to or less than the maximum number of associations supported.

Case2: the association will be opened (and closed) on demand (eg. CT Wizard; AX-, SP-, MR modalities). Assuming this behavior belongs to all modalities (connected to the same HCC device), the number of modalities may be greater than the maximum number of associations supported. This amount will be shared by the modalities.

For each SIEMENS modality, the open-close behavior of the association is fixed. For other non-SIEMENS modalities this behavior is unknown. Optimally, the number of modalities is equal to or less than the maximum number of associations supported.

2.3.1 The Association will always be opened by the SCU (case1)

If the association will always be opened by the SCU for each configured HCC device, the association is reserved for this SCU only.

If the maximum number of associations = 1, and another modality never releases the association, this HCC device is always reserved for this modality.

2.3.2 The Association will be opened (and closed) on demand (case2)

The association will be opened (and closed) by SCU on demand for each configured HCC device with *Product-Name* (eg. AX/MR/SP/CT- Wizard).

Special cases (see case 1):

If the number of modalities configured in the HCC device is greater than the maximum number of associations supported, the printing of some modalities will not work. The printing functionality depends on the access time and the release mechanism of each connected modality (eg. maximum number of associations supported = 1, number of modalities = 2: during the access time of the first modality, the access of the second modality is denied and the connectivity fails and vice versa).

If other modalities do not release the associations, the number of associations that can be shared decreases.

3 Modality

3.1 Hardware and Software Prerequisites

All HW and SW prerequisites are included with the Uroskop Access / ASPIA delivery volume.

3.2 Parameters

For software configuration, HCC data/parameters and possibly additional film matrix properties (under *syngo*: Filming Properties) are required.

3.2.1 Modality Data and Configuration Parameter

Properties	Example	Supplier
Port Number	104	Default entry
AE Title	PR_ "XXX"	Network Administrator (e.g. PR_ Serial Number)
TCP/IP address	xxx.xxx.xxx.xxx	Network Administrator

3.2.2 HCC Data and Configuration Parameter (e.g., KODAK DryView 8300)

Properties	Example	Supplier
Camera Type*	<i>KODAK DryView 8300</i>	HCC Service
Port Number*	<i>104</i>	HCC Service
AE Title*	<i>IMN_8300</i>	Network Administrator or HCC Service
Host name	<i>K100327</i>	Network Administrator
TCP/IP address	<i>xxx.x.x.xxx</i>	Network Administrator
Logical name	<i>IMN 8300</i>	Freely definable (<i>syngo</i> internal). ATTENTION : HC device must not include any blanks
HC Device	<i>DryView8300</i>	
Medium Type	<i>BlueFilm</i>	Default entry
Film Destination	<i>Processor</i>	Default entry
Color appearance	<i>Monochrome</i>	Default entry
Background	<i>Black</i>	Default entry
Transformation	<i>Nomagnification</i>	Default entry

* The values of these parameters are part of the specific HCC information.

3.2.3 Film Matrix Properties

Filming Properties settings depend on the selected class (DICOM Camera) This pull-down menu for class DICOM Cameras will be provided. Select your DICOM Camera type. A specific file for this type will be loaded and the "Filming Properties" will be shown. Changing the "Filming Properties" will have an effect at camera site and may not fulfil the requirements. Please do not change anything if not otherwise noted.

"Pixel size" and "media sheet size" are filming properties; this information is required for image scaling and must **not** be changed.

3.3 SW Configuration

The following information is required: host name, TCP/IP address, the application entity title, and port number of the DICOM remote host (DICOM laser camera).

The AE Title, Port Number and Camera Type must be provided by the local camera service.

See Siemens Intranet Medical Solutions Customer Services

Product Information/Documentation/SP/Litho Uro P`Therapy/Uroskop Access / CB-DOC

or Software Configuration for DICOM Camera

Product Information/Cameras/SW/Syngo/Dicom/(COSW-000.843.01.01)

or

Short description of the first hard copy Configuration for SW Version Uroskop Access

Syngo SW Configuration and Laser Camera
Select options in the menu line
Click to local service
The Siemens Service Software Authentication Platform appears
Please enter the password and click "OK"
The Syngo Service Software Home Menu Platform appears
Click "Configuration"
The Local Service Configuration List of System Options appears
Select DICOM Print Devices
Click "next"
The Local Service Configuration Initial Setup Platform appears
Click DICOM "General"
Click ">"
The local Application Entity Title Platform appears
Provide the Local Camera Service with the information in the field "Print (SCU) AE Title PR_ "XXX"
Click "Save", ">", "Finish"
The Configuration Setup Platform appears
Click Local Host "TCP/IP LAN"
The local Service Configuration TCP/IP LAN Platform appears
Provide the Local Camera Service with the information in the field "IP address" (scroll down menu for IP address but do not select it)
Click "Finish"
The Local Service Configuration Setup Platform appears
Select DICOM Print Devices
The Local Service Hardcopy Device Platform appears
Enter the host name and TCP/IP address of the laser camera (provided by the camera manufacturer)
(Click "test" for testing IP communication; ping)
Click "save"
Host properties successfully saved
Click "OK"
Click ">"
The General Note Properties Dialog Platform appears
In Logical Name
Enter the logical name of the laser camera
Select the Host and choose the previously defined host name in the Hardcopy device platform

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General HCC Information

Camera Installation

In Application Entity Properties		
Enter AE Title in edit AE-Title field (provided by the camera manufacturer)		
Enter Port Number (provided by the camera manufacturer)		
Click "add"		
Click "save"		
DICOM node properties successfully saved		
Click "OK"		
Select the logical name again and click "verification" to test the DICOM communication; (mc3echo)		
Click ">"		
The Camera Specific Parameters Platform appears		
HC Device: Enter the camera name		
General Settings: /Type: DICOM printer		
/Class: e.g.agfadrystar3000 or see specific HCC Information		
/DICOM Node: previous defined logical camera name		
Filming Properties:	Hold printed film job	10 = default; (max =10) (films can be printed again)
	Min density	20 = default; (can be changed by steps of 0.1)
	Pixel Size (changes not allowed)	
	Film Sheet Formats Portrait (Do not modify and/or add film sizes, select and delete film sizes that are not available at site only)	
	Film Sheet Formats Landscape (Do not modify and/or add film sizes, select and delete film sizes that are not available at site only)	
	Medium type	blue film = default; clear film; paper
	Film destination	processor = default; magazine
	Color appearance	monochrome =default; (select color for Printer that support and use color media only, e.g.Drystar2000; Codonics)
	Background	black =default; white
	Transformation	nomagnification = default; do not change this value; exception for Kodak XL 959; replicate; bilinear; cubic;
(Do not change any other values under Filming Properties)		
Click "save"		
Caution: Please wait for the message device properties successfully saved		
Click "OK"		
Click "Finish"		
The Configuration Setup Platform appears		
Jump over by clicking ">" and select the next marked DICOM "HC Overview"		
Click "Finish"		
The Configuration Setup Platform appears		
Click LUT Files		
The LUT Platform appears		
"If new LUT files for one or more modalities are available on a removable medium, e.g., Floppy or CD, these files can be selected on the source drive and copied to the dependent LUT directories on the local host. Unneeded LUT files can be removed from LUT directories on local host."		
Click ">"		
Usage of Presentation LUT Platform appears		

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Camera Installation

Select disable		
Modifications are necessary for additional image impressions only.		
Only the topic XRImage and SCImage are relevant. Depending on the camera, the specific entries must be performed. If nothing else is mentioned, set the XRImage and SCImage to "xrf" and "3.00" for maximum density. The enties for XRImage and SCImage have to be identical.		
Overall Maximum density	3.00 = default (depends of the max. possible value of the max. density of all image types)	
Interpolation for printing	Bilinear Mode	#Smoothing Type (should be used)
	Replicate	#Smoothing Type
	Cubic = (default entry for ASPIA) 0,2,3,4 pertains cubic mode only	
When changes are made, click "save"		
Click "finish"		
Click "Home"; the Uroskop Access System restarts automatically		
Note: This may take some time. Confirm warnings with "OK."		

4 Image Quality and Optical Density

4.1 General Image Quality Information (LUT)

Only the standard LUT files are loaded. For importing/removing additional LUT files, see section 4.4 "Different LUTs Required" in this chapter.

The image data from the modality to the HCC are transformed / corrected by the LUTs, once in the modality and once in the HCC; thus, the LUT must be set on both sides:

Modality	See Siemens Intranet Med UPTIMES Services Product Information/Documentation/SP/Litho Uro P`Therapy/Uroskop Access / CB-DOC Check the "LUT files" in the Syngo SW Configuration for DICOM Cameras		
	"Usage of Presentation LUT "disabled" is selected		
	Image Type	Correction LUT	Max Density
	XRFImage	xrf	3.00
	SCImage	sc	3.00
HCC	See Specific HCC information: "DICOM printer settings" Setting is performed by the HCC Service; "LINEAR LUT"		

Secondary Capture Images (SCImage) may not fulfil the required image quality, if the corresponding LUT files of the modalities are not loaded.

4.2 Density Verification (LUT)

There are 2 possibilities for checking the LUT via the film density:

Modality configured to specific Correction LUT(e.g. xrf) and HCC configured to **linear** curves or the modality configured to **linear** LUT and HCC configured to **linear** curves.

	Verification	Modality Adjustment			Reference Value
	For ASPIA Application	Image Type	Correction LUT	Max Density	
1	Desired density	XRFImage	xrf	3.00	See table in 4.2.1 "XRF LUT"
2	HCC linearity	XRFImage	nothing selected or linear LUT	3.00	See table in 4.2.1 "Linear LUT"

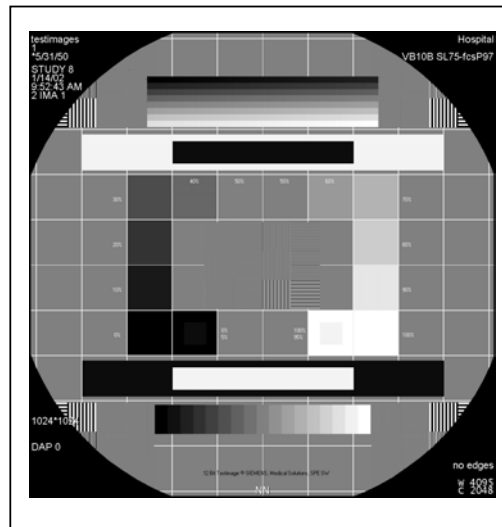
These two checks are equivalent; checking "specified density" is sufficient.

Checking "HCC linearity" may be necessary if the desired density verification (1) shows deviations and an HCC setting change must be made.

Even if the HCC Service does not require a test image of the modality for HCC setting, checking this setting – and possibly further HCC corrections – is easier with the HCC linearity verification (2) than with the desired density verification (1). Only the HCC linearity LUT is effective; a graphical display would now show only the current HCC behaviour, which could be helpful for HCC Service.

4.2.1 Density Values for ASPIA

Measure the density values in SMPTE similar Test Image;
(for each film size)



Steps	Steps %	XRF Positive Ref. LUT	Plus Tolerance	Minus Tolerance	Linear Positive Ref. LUT	Plus Tolerance	Minus Tolerance
1	100	0.20	0.23	0.17	0,20	0.23	0.17
2	90	0.31	0.35	0.27	0.48	0.52	0.44
3	80	0.42	0.47	0.37	0.76	0.81	0.71
4	70	0.56	0.62	0.50	1.04	1.10	0.98
5	60	0.73	0.79	0.67	1.32	1.38	1.26
6	50	0.93	1.00	0.86	1.60	1.67	1.53
7	40	1.15	1.23	1.07	1.88	1.96	1.80
8	30	1.43	1.51	1.35	2.16	2.24	2.08
9	20	1.82	1.91	1.73	2.44	2.53	2.35
10	10	2.30	2.40	2.20	2.72	2.82	2.62
11	0	3.00	3.10	2.90	3,00	3.10	2.90
Modality is configured to XRF - LUT , Printer is configured to linear LUT .					Modality is configured to linear - LUT , Printer is configured to linear LUT .		

Refer to Urooskop Access SPL5-330.820.01

Please perform the Image quality quick test, and protocol the density values measured in the field of 0%; 40% and 100% for positive and negative image presentation.

4.3 Reference Film for Image System ASPIA

To create a reference film with **linear** LUT adjustment, please follow this procedure.

Select the "Viewing" tab, select Patient Browser, select local database, navigate to the folder "**Service Patient**," view the test images:

Print the test image 1 IMA 1 (SMPTE similar test pattern; default center 2048 / width 4095);

Measure the test image 1 IMA 1 (SMPTE similar test pattern); and verify it using the table above for Linear LUT.

To create a reference film with desired (**XRF**) LUT adjustment, please follow this procedure.

Select the "Viewing" tab, select Patient Browser, select local database, navigate to the folder "**Service Patient**," view the test images:

Print the test image 1 IMA 1 (SMPTE similar test pattern; default center 2048 / width 4095);

Measure the test image 1 IMA 1 (SMPTE similar test pattern); and verify it using the table above for XRF LUT.

4.4 Description Correction LUT Files

4.4.1 Description Correction LUT Files for Image System ASPIA

LUT files with Dmin 0.2 and Dmax 3.00:

nothing selected	Linear LUT
xrf:	Standard LUT for XRF Images; default LUT for all HCC in SW VA12B,C,D
Xrf_16bin	Standard LUT for XRF Images; increased pixel depth, improved grey value resolution and homogeneity in SW VA13A
XrfCorr16b-bspline	Standard LUT for XRF Images; increased pixel depth, improved grey value resolution and homogeneity in SW VA13A

4.5 Additional / Unnecessary LUTs files

If new LUT files for one or more modalities are available on a removable medium, e.g., floppy or CD, these files can be selected on the source drive and copied to the dependent LUT directories on the local system.

Unnecessary LUT files can be removed from LUT directories on the local system.

4.5.1 Importing LUT Files

In Local Service Configuration Platform, select LUT Files.

Select the (Source) drive and the path where the appropriate LUT files are located.

Mark the appropriate LUT files: (shift + left mouse key)

Select the destination LUT directory, (correction LUT directory) which depends on the image type (**XRFImage**). By pushing the 'copy' button, the selected LUT file will be transferred to XRFImage type.

Repeat this procedure with the appropriate XRF LUT files for SC Images.

Select the destination LUT directory, (correction LUT directory) which depends on the image type (**SCImage**).

By pushing the 'copy' button, the selected LUT file will be transferred to SCImage type.

Confirm the message "files successfully copied" by clicking on "OK".

4.5.2 Removing LUT Files

Unneeded LUT files can be removed from LUT directories on the local host by selecting the appropriate LUT file and pushing the 'remove' button.

Click ">"

5 Error and Warning Messages

5.1 Message to Film Job Status and Error Handling

If the association is not available, is broken or the network is not available, the user shall be informed as well and corrective actions shall be performed, if necessary.

Message string visible in the Status Bar	Description	Other action for <i>syngo</i> /camera symbol
Connection to camera is not available.	Camera is not connected. Network is not available.	The Icon for printing is marked with a cross. The queue is stopped.

5.2 Common Status Information

Printer Status info/Execution Status info	Description	Message string visible in the Status Bar	Other action for <i>syngo</i> /camera symbol
NORMAL	Camera is ready.	Camera is ready.	<None>/idle
BAD RECEIVE MGZ	There is a problem with the film receive magazine. Films from the printer cannot be transported into the magazine.	Problem with receive magazine.	<None>/interact
BAD SUPPLY MGZ	There is a problem with a film supply magazine. Films from this magazine cannot be transported into the printer.	Problem with supply magazine.	<None>/interact
CALIBRATING	Printer is performing self calibration, it is expected to be available for normal operation shortly.	Self calibration. Please wait.	<None>/idle
CALIBRATION ERR	An error in the printer calibration has been detected, quality of processed films may not be optimal.	Problem in calibration. Film quality may not be optimal.	<None>/interact
CHECK CHEMISTRY	A problem with the processor chemicals has been detected, quality of processed films may not be optimal.	Problem with chemistry. Film quality may not be optimal.	<None>/interact

CHECK SORTER	There is an error in the film sorter	Error in film sorter.	<None>/interact
CHEMICALS EMPTY	There are no processing chemicals in the processor, films will not be printed and processed until the processor is back to normal.	Camera chemistry empty. Please check.	<None>/interact
CHEMICALS LOW	The chemical level in the processor is low, if not corrected, it will probably shut down soon.	Camera chemistry low. Please check.	<None>/interact
COVER OPEN	One or more printer or processor covers, drawers, doors are open.	Camera cover, drawer or door open.	<None>/interact
ELEC CONFIG ERR	Printer configured improperly for this job.	Camera configured improperly for this job. Queue stopped.	Queue for this camera will be STOPPED/Queue stopped
ELEC DOWN	Printer is not operating due to some unspecified electrical hardware problem.	Camera electrical hardware problem.	<None>/interact
ELEC SW ERROR	Printer not operating for some unspecified software error.	Camera software problem. Queue stopped.	Queue for this camera will be STOPPED/queue stopped
EMPTY 8x10	The 8x10 inch film supply magazine is empty.	8x10 film supply empty.	<None>/interact
EMPTY 8x10 BLUE	The 8x10 inch blue film supply magazine is empty.	8x10 blue film supply empty.	<None>/interact
EMPTY 8x10 CLR	The 8x10 inch clear film supply magazine is empty.	8x10 clear film supply empty.	<None>/interact
EMPTY 8x10 PAPR	The 8x10 inch paper supply magazine is empty.	8x10 paper supply empty.	<None>/interact
EMPTY 10x12	The 10x12 inch film supply magazine is empty.	10x12 film supply empty.	<None>/interact
EMPTY 10x12 BLUE	The 10x12 inch blue film supply magazine is empty.	10x12 blue film supply empty.	<None>/interact
EMPTY 10x12 CLR	The 10x12 inch clear film supply magazine is empty.	10x12 clear film supply empty.	<None>/interact
EMPTY 10x12 PAPR	The 10x12 inch paper supply magazine is empty.	10x12 paper supply empty.	<None>/interact

EMPTY 10x14	The 10x14 inch film supply magazine is empty.	10x14 film supply empty.	<None>/interact
EMPTY 10x14 BLUE	The 10x14 inch blue film supply magazine is empty.	10x14 blue film supply empty.	<None>/interact
EMPTY 10x14 CLR	The 10x14 inch clear film supply magazine is empty.	10x14 clear film supply empty.	<None>/interact
EMPTY 10x14 PAPR	The 10x14 inch paper supply magazine is empty.	10x14 paper supply empty.	<None>/interact
EMPTY 11x14	The 11x14 inch film supply magazine is empty.	11x14 film supply empty.	<None>/interact
EMPTY 11x14 BLUE	The 11x14 inch blue film supply magazine is empty.	11x14 blue film supply empty.	<None>/interact
EMPTY 11x14 CLR	The 11x14 inch clear film supply magazine is empty.	11x14 clear film supply empty.	<None>/interact
EMPTY 11x14 PAPR	The 11x14 inch paper supply magazine is empty.	11x14 paper supply empty.	<None>/interact
EMPTY 14x14	The 14x14 inch film supply magazine is empty.	14x14 film supply empty.	<None>/interact
EMPTY 14x14 BLUE	The 14x14 inch blue film supply magazine is empty.	14x14 blue film supply empty.	<None>/interact
EMPTY 14x14 CLR	The 14x14 inch clear film supply magazine is empty.	14x14 clear film supply empty.	<None>/interact
EMPTY 14x14 PAPR	The 14x14 inch paper supply magazine is empty.	14x14 paper supply empty.	<None>/interact
EMPTY 14x17	The 14x17 inch film supply magazine is empty.	14x17 film supply empty.	<None>/interact
EMPTY 14x17 BLUE	The 14x17 inch blue film supply magazine is empty.	14x17 blue film supply empty.	<None>/interact
EMPTY 14x17 CLR	The 14x17 inch clear film supply magazine is empty.	14x17 clear film supply empty.	<None>/interact
EMPTY 14x17 PAPR	The 14x17 inch paper supply magazine is empty.	14x17 paper supply empty.	<None>/interact

EMPTY 24x24	The 24x24 inch film supply magazine is empty.	24x24 film supply empty.	<None>/interact
EMPTY 24x24 BLUE	The 24x24 inch blue film supply magazine is empty.	24x24 blue film supply empty.	<None>/interact
EMPTY 24x24 CLR	The 24x24 inch clear film supply magazine is empty.	24x24 clear film supply empty.	<None>/interact
EMPTY 24x24 PAPR	The 24x24 inch paper supply magazine is empty.	24x24 paper supply empty.	<None>/interact
EMPTY 24x30	The 24x30 inch film supply magazine is empty.	24x30 film supply empty.	<None>/interact
EMPTY 24x30 BLUE	The 24x30 inch blue film supply magazine is empty.	24x30 blue film supply empty.	<None>/interact
EMPTY 24x30 CLR	The 24x30 inch clear film supply magazine is empty.	24x30 clear film supply empty.	<None>/interact
EMPTY 24x30 PAPR	The 24x30 inch paper supply magazine is empty.	24x30 paper supply empty.	<None>/interact
EMPTY A4 PAPR	The A4 paper supply magazine is empty.	A4 paper supply empty.	<None>/interact
EMPTY A4 TRANS	The A4 transparency supply magazine is empty.	A4 transparency supply empty.	<None>/interact
EXPOSURE FAILURE	The exposure device has failed due to some unspecified reason.	Exposure device has failed.	<None>/interact
FILM JAM	A film transport error has occurred and a film is jammed in the printer or processor.	Film jam.	<None>/interact
FILM TRANSP ERR	There is a malfunction with the film transport, there may or may not be a film jam.	Film transport problem.	<None>/interact
FINISHER EMPTY	The finisher is empty.	Finisher is empty.	<None>/interact
FINISHER ERROR	The finisher is not operating due to some unspecified reason.	Finisher problem.	<None>/interact
FINISHER LOW	The finisher is low on supplies	Finisher low.	<None>/interact

LOW 8x10	The 8x10 inch film supply magazine is low.	8x10 film supply low.	<None>/interact
LOW 8x10 BLUE	The 8x10 inch blue film supply magazine is low.	8x10 blue film supply low.	<None>/interact
LOW 8x10 CLR	The 8x10 inch clear film supply magazine is low.	8x10 clear film supply low.	<None>/interact
LOW 8x10 PAPR	The 8x10 inch paper supply magazine is low.	8x10 paper supply low.	<None>/interact
LOW 10x12	The 10x12 inch film supply magazine is low.	10x12 film supply low.	<None>/interact
LOW 10x12 BLUE	The 10x12 inch blue film supply magazine is low.	10x12 blue film supply low.	<None>/interact
LOW 10x12 CLR	The 10x12 inch clear film supply magazine is low.	10x12 clear film supply low.	<None>/interact
LOW 10x12 PAPR	The 10x12 inch paper supply magazine is low.	10x12 paper supply low.	<None>/interact
LOW 10x14	The 10x14 inch film supply magazine is low.	10x14 film supply low.	<None>/interact
LOW 10x14 BLUE	The 10x14 inch blue film supply magazine is low.	10x14 blue film supply low.	<None>/interact
LOW 10x14 CLR	The 10x14 inch clear film supply magazine is low.	10x14 clear film supply low.	<None>/interact
LOW 10x14 PAPR	The 10x14 inch paper supply magazine is low.	10x14 paper supply low.	<None>/interact
LOW 11x14	The 11x14 inch film supply magazine is low.	11x14 film supply low.	<None>/interact
LOW 11x14 BLUE	The 11x14 inch blue film supply magazine is low.	11x14 blue film supply low.	<None>/interact
LOW 11x14 CLR	The 11x14 inch clear film supply magazine is low.	11x14 clear film supply low.	<None>/interact
LOW 11x14 PAPR	The 11x14 inch paper supply magazine is low.	11x14 paper supply low.	<None>/interact

LOW 14x14	The 14x14 inch film supply magazine is low.	14x14 film supply low.	<None>/interact
LOW 14x14 BLUE	The 14x14 inch blue film supply magazine is low.	14x14 blue film supply low.	<None>/interact
LOW 14x14 CLR	The 14x14 inch clear film supply magazine is low.	14x14 clear film supply low.	<None>/interact
LOW 14x14 PAPR	The 14x14 inch paper supply magazine is low.	14x14 paper supply low.	<None>/interact
LOW 14x17	The 14x17 inch film supply magazine is low.	14x17 film supply low.	<None>/interact
LOW 14x17 BLUE	The 14x17 inch blue film supply magazine is low.	14x17 blue film supply low.	<None>/interact
LOW 14x17 CLR	The 14x17 inch clear film supply magazine is low.	14x17 clear film supply low.	<None>/interact
LOW 14x17 PAPR	The 14x17 inch paper supply magazine is low.	14x17 paper supply low.	<None>/interact
LOW 24x24	The 24x24 inch film supply magazine is low.	24x24 film supply low.	<None>/interact
LOW 24x24 BLUE	The 24x24 inch blue film supply magazine is low.	24x24 blue film supply low.	<None>/interact
LOW 24x24 CLR	The 24x24 inch clear film supply magazine is low.	24x24 clear film supply low.	<None>/interact
LOW 24x24 PAPR	The 24x24 inch paper supply magazine is low.	24x24 paper supply low.	<None>/interact
LOW 24x30	The 24x30 inch film supply magazine is low.	24x30 film supply low.	<None>/interact
LOW 24x30 BLUE	The 24x30 inch blue film supply magazine is low.	24x30 blue film supply low.	<None>/interact
LOW 24x30 CLR	The 24x30 inch clear film supply magazine is low.	24x30 clear film supply low.	<None>/interact
LOW 24x30 PAPR	The 24x30 inch paper supply magazine is low.	24x30 paper supply low.	<None>/interact
LOW A4 PAPR	The A4 paper supply magazine is low.	A4 paper supply low.	<None>/interact
LOW A4 TRANS	The A4 transparency supply magazine is low.	A4 transparency supply low.	<None>/interact

NO RECEIVE MGZ	The film receive magazine no available.	Film receiver not available.	<None>/interact
NO RIBBON	The ribbon cartridge needs to be replaced.	Replace ribbon cartridge.	<None>/interact
NO SUPPLY MGZ	The film supply magazine specified for this job is not available.	Film supply not available.	<None>/interact
CHECK PRINTER	The printer is not ready at this time, operator intervention is required to make the printer available.	Check camera.	<None>/interact
CHECK PROC	The processor is not ready at this time, operator intervention is required to make the printer available.	Check processor.	<None>/interact
PRINTER DOWN	The printer is not operating due to some unspecified reason.	Camera down.	<None>/interact
PRINTER INIT	The printer is not ready at this time, it is expected to become available without intervention, For example, it may be in a normal warm-up state.	Camera initializing.	<None>/idle
PRINTER OFFLINE	The printer has been disabled by an operator or service person.	Camera off-line.	<None>/interact
PROC DOWN	The processor is not operating due to some unspecified reason.	Processor down.	<None>/interact
PROC INIT	The processor is not ready at this time, it is expected to become available without intervention. For example, it may be in a normal warm-up state.	Processor initializing.	<None>/idle
PROC OVERFLOW FL	Processor chemicals are approaching the overflow full mark.	Processor chemicals overflow.	<None>/interact

PROC OVERFLOW HI	Processor chemicals have reached the overflow full mark.	Processor chemicals near overflow.	<None>/interact
QUEUED	Print job in Queue	-	<None>/idle
RECEIVER FULL	The Film receive magazine is full.	Receiver full.	<None>/interact
REQ MED NOT INST	The requested film, paper, or other media supply magazine is installed in the printer, but may be available with operator intervention.	Install media supply.	<None>/interact
REQ MED NOT AVAI	The requested film, paper, or other media requested is not available on this printer.	Media supply not available on this camera. Queue stopped. Change camera.	Queue for this camera will be STOPPED/queue stopped
RIBBON ERROR	There is an unspecified problem with the print ribbon.	Error with print ribbon.	<None>/interact
SUPPLY EMPTY	The printer is out of film.	Camera out of film.	<None>/interact
SUPPLY LOW	The film supply is low.	Film supply low.	<None>/interact
UNKNOWN	There is an unspecified problem.	Unspecified problem with camera.	<None>/interact

5.3 Additional DICOM Execution Status Information

Execution Status info	Description	Message string visible in the Status Bar	Other action for syngo/camera symbol
INVALID PAGE DES	The specified page layout cannot be printed or other page description errors have been detected.	Film Job cannot be printed on this camera. Queue stopped. Please redirect film job.	Queue for this camera will be STOPPED/queue stopped
INSUFFIC MEMORY	There is not enough memory available to complete this job.	Not enough memory available in camera. Queue stopped. Please continue queue or change camera.	Queue for this camera will be STOPPED/queue stopped
NONE	General printer warning, no specific information is available. Spooling of print jobs to disk is still possible.	-	<None>/idle

6 Abbreviations

AE Title	Application Entity Title
CTE	Department Name
DCS	DICOM Conformance Statement
DICOM	Digital Imaging and Communication in Medicine
HW/ SW	Hardware / Software
HCC	Hardcopy Camera
LAN	Local Area Network
LUT	Look-up Table
OEM	Original Equipment Manufacturer
SCP	Service Class Provider
SCU	Service Class User
SGK	Department Name
TCP/IP	Transfer Control Protocol / Internet Protocol

7 Changes to Previous Version

Chapter 2.2 and 4.3 were updated.

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